

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 09/806,125 F  
Source: IFW16  
Date Processed by STIC: 10/26/04

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 10/26/2004

PATENT APPLICATION: US/09/806,125F

TIME: 16:13:42

Input Set : A:\pto.lm.txt

Output Set: N:\CRF4\10262004\I806125F.raw

3 <110> APPLICANT: MATSUTANI, Etsuya  
 4 NAITO, Kenichiro  
 6 <120> TITLE OF INVENTION: Agents For Retarding Change of Hormone-dependent Cancer into  
 Hormone-  
 7 independent Cancer  
 9 <130> FILE REFERENCE: 2556USOP  
 11 <140> CURRENT APPLICATION NUMBER: 09/806,125F  
 12 <141> CURRENT FILING DATE: 2001-03-28  
 14 <150> PRIOR APPLICATION NUMBER: PCT/JP99/05533  
 15 <151> PRIOR FILING DATE: 1999-10-07  
 17 <150> PRIOR APPLICATION NUMBER: JP 10-286793  
 18 <151> PRIOR FILING DATE: 1998-10-08  
 20 <160> NUMBER OF SEQ ID NOS: 13  
 22 <170> SOFTWARE: PatentIn version 3.0  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 10  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: artificial sequence  
 29 <220> FEATURE:  
 30 <223> OTHER INFORMATION: LH-RH peptide derivative  
 32 <220> FEATURE:  
 33 <221> NAME/KEY: MOD\_RES  
 34 <222> LOCATION: (6)..(6)  
 35 <223> OTHER INFORMATION: Xaa = DLeu, DAla, DTrp, DSer(tBu), D2Nal, or DHis(ImBzl)  
 37 <220> FEATURE:  
 38 <221> NAME/KEY: MOD\_RES  
 39 <222> LOCATION: (10)..(10)  
 40 <223> OTHER INFORMATION: Xaa = Gly-NH2, or -NH-C2H5  
 42 <400> SEQUENCE: 1  
 W--> 43 Pro His Trp Ser Tyr Xaa Leu Arg Pro Xaa  
 44 1 5 10  
 46 <210> SEQ ID NO: 2  
 47 <211> LENGTH: 10  
 48 <212> TYPE: PRT  
 49 <213> ORGANISM: artificial sequence  
 51 <220> FEATURE:  
 52 <223> OTHER INFORMATION: LH-RH peptide derivative  
 54 <220> FEATURE:  
 55 <221> NAME/KEY: MOD\_RES  
 56 <222> LOCATION: (6)..(6)  
 57 <223> OTHER INFORMATION: Xaa = DLeu, DAla, DTrp, DSer(tBut), D2Nal, or DHis(ImBzl)  
 59 <220> FEATURE:  
 60 <221> NAME/KEY: MOD\_RES  
 61 <222> LOCATION: (10)..(10)

(ps.6)

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62 &lt;223&gt; OTHER INFORMATION: Xaa = Gly-NH2, or NH-C2H5

64 &lt;400&gt; SEQUENCE: 2

W--&gt; 65 Pro His Trp Ser Tyr Xaa Leu Arg Pro Xaa

66 1 5 10

68 &lt;210&gt; SEQ ID NO: 3

69 &lt;211&gt; LENGTH: 11

70 &lt;212&gt; TYPE: PRT

71 &lt;213&gt; ORGANISM: artificial sequence

73 &lt;220&gt; FEATURE:

74 &lt;223&gt; OTHER INFORMATION: LH-RH peptide derivative

76 &lt;220&gt; FEATURE:

77 &lt;221&gt; NAME/KEY: MOD\_RES

78 &lt;222&gt; LOCATION: (1)..(1)

79 &lt;223&gt; OTHER INFORMATION: Xaa = N(4H2-furoyl)Gly, or NAc

81 &lt;220&gt; FEATURE:

82 &lt;221&gt; NAME/KEY: MOD\_RES

83 &lt;222&gt; LOCATION: (2)..(2)

84 &lt;223&gt; OTHER INFORMATION: Xaa = D2Nal

86 &lt;220&gt; FEATURE:

87 &lt;221&gt; NAME/KEY: MOD\_RES

88 &lt;222&gt; LOCATION: (3)..(3)

89 &lt;223&gt; OTHER INFORMATION: Xaa = D4ClPhe

91 &lt;220&gt; FEATURE:

92 &lt;221&gt; NAME/KEY: MOD\_RES

93 &lt;222&gt; LOCATION: (4)..(4)

94 &lt;223&gt; OTHER INFORMATION: Xaa = D3Pal

96 &lt;220&gt; FEATURE:

97 &lt;221&gt; NAME/KEY: MOD\_RES

98 &lt;222&gt; LOCATION: (6)..(6)

99 &lt;223&gt; OTHER INFORMATION: Xaa = NMeTyr, Tyr, Aph(Atz), or NMeAph(Atz)

101 &lt;220&gt; FEATURE:

102 &lt;221&gt; NAME/KEY: MOD\_RES

103 &lt;222&gt; LOCATION: (7)..(7)

104 &lt;223&gt; OTHER INFORMATION: Xaa = DLys(Nisp), DCit, DLys(AzaglyNic), DLys(AzaglyFur), DhArg(Atz), or

105 D

106 hC

108 &lt;220&gt; FEATURE:

109 &lt;221&gt; NAME/KEY: MOD\_RES

110 &lt;222&gt; LOCATION: (9)..(9)

111 &lt;223&gt; OTHER INFORMATION: Xaa = Lys(Nisp), Arg, or hArg(Et2)

113 &lt;220&gt; FEATURE:

114 &lt;221&gt; NAME/KEY: MOD\_RES

115 &lt;222&gt; LOCATION: (11)..(11)

116 &lt;223&gt; OTHER INFORMATION: Xaa = DAla

118 &lt;400&gt; SEQUENCE: 3

W--&gt; 119 Xaa Xaa Xaa Xaa Ser Xaa Xaa Leu Xaa Pro Xaa

120 1 5 10

122 &lt;210&gt; SEQ ID NO: 4

123 &lt;211&gt; LENGTH: 6

## RAW SEQUENCE LISTING

DATE: 10/26/2004

PATENT APPLICATION: US/09/806,125F

TIME: 16:13:42

Input Set : A:\pto.lm.txt

Output Set: N:\CRF4\10262004\I806125F.raw

124 <212> TYPE: PRT  
 125 <213> ORGANISM: artificial sequence  
 127 <220> FEATURE:  
 128 <223> OTHER INFORMATION: kinase consensus target peptide  
 130 <400> SEQUENCE: 4  
 131 His Arg Asp Leu Ala Ala  
 132 1 5  
 134 <210> SEQ ID NO: 5  
 135 <211> LENGTH: 5  
 136 <212> TYPE: PRT  
 137 <213> ORGANISM: artificial sequence  
 139 <220> FEATURE:  
 140 <223> OTHER INFORMATION: kinase consensus target peptide  
 142 <400> SEQUENCE: 5  
 143 Ser Asp Val Trp Ser  
 144 1 5  
 146 <210> SEQ ID NO: 6  
 147 <211> LENGTH: 16  
 148 <212> TYPE: DNA  
 149 <213> ORGANISM: artificial sequence  
 151 <220> FEATURE:  
 152 <223> OTHER INFORMATION: primer  
 154 <220> FEATURE:  
 155 <221> NAME/KEY: misc\_feature  
 156 <222> LOCATION: (4)..(4)  
 157 <223> OTHER INFORMATION: n = c or a  
 159 <220> FEATURE:  
 160 <221> NAME/KEY: misc\_feature  
 161 <222> LOCATION: (3)..(3)  
 162 <223> OTHER INFORMATION: n = c or t  
 164 <220> FEATURE:  
 165 <221> NAME/KEY: misc\_feature  
 166 <222> LOCATION: (9)..(9)  
 167 <223> OTHER INFORMATION: n = c or t  
 169 <220> FEATURE:  
 170 <221> NAME/KEY: misc\_feature  
 171 <222> LOCATION: (10)..(10)  
 172 <223> OTHER INFORMATION: n = c or t  
 174 <400> SEQUENCE: 6

W--&gt; 175 canngggann ggcbgc

16

177 <210> SEQ ID NO: 7  
 178 <211> LENGTH: 16  
 179 <212> TYPE: DNA  
 180 <213> ORGANISM: artificial sequence  
 182 <220> FEATURE:  
 183 <223> OTHER INFORMATION: primer  
 185 <220> FEATURE:  
 186 <221> NAME/KEY: misc\_feature  
 187 <222> LOCATION: (2)..(2)

## RAW SEQUENCE LISTING

DATE: 10/26/2004

PATENT APPLICATION: US/09/806,125F

TIME: 16:13:42

Input Set : A:\pto.lm.txt

Output Set: N:\CRF4\10262004\I806125F.raw

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188 <223> OTHER INFORMATION: n = a or g
190 <220> FEATURE:
191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: (8)..(8)
193 <223> OTHER INFORMATION: n = c or a
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (11)..(11)
198 <223> OTHER INFORMATION: n = g or a
200 <220> FEATURE:
201 <221> NAME/KEY: misc_feature
202 <222> LOCATION: (14)..(14)
203 <223> OTHER INFORMATION: n = a or g
205 <400> SEQUENCE: 7
W--> 206 anctccanac ntcnct 16
208 <210> SEQ ID NO: 8
209 <211> LENGTH: 17
210 <212> TYPE: DNA
211 <213> ORGANISM: artificial sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: primer
216 <220> FEATURE:
217 <221> NAME/KEY: misc_feature
218 <222> LOCATION: (3)..(3)
219 <223> OTHER INFORMATION: n = c or t
221 <220> FEATURE:
222 <221> NAME/KEY: misc_feature
223 <222> LOCATION: (4)..(4)
224 <223> OTHER INFORMATION: n = c or a
226 <220> FEATURE:
227 <221> NAME/KEY: misc_feature
228 <222> LOCATION: (6)..(6)
229 <223> OTHER INFORMATION: n = g or a
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (10)..(10)
234 <223> OTHER INFORMATION: n = c or t
236 <220> FEATURE:
237 <221> NAME/KEY: misc_feature
238 <222> LOCATION: (12)..(12)
239 <223> OTHER INFORMATION: n = g or t
241 <220> FEATURE:
242 <221> NAME/KEY: misc_feature
243 <222> LOCATION: (15)..(15)
244 <223> OTHER INFORMATION: n = a or t
246 <400> SEQUENCE: 8
W--> 247 canngngacn tngcngc 17
249 <210> SEQ ID NO: 9
250 <211> LENGTH: 16

```

## RAW SEQUENCE LISTING

DATE: 10/26/2004

PATENT APPLICATION: US/09/806,125F

TIME: 16:13:42

Input Set : A:\pto.lm.txt

Output Set: N:\CRF4\10262004\I806125F.raw

```

251 <212> TYPE: DNA
252 <213> ORGANISM: artificial sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: primer
257 <220> FEATURE:
258 <221> NAME/KEY: misc_feature
259 <222> LOCATION: (2)..(2)
260 <223> OTHER INFORMATION: n = a or g
262 <220> FEATURE:
263 <221> NAME/KEY: misc_feature
264 <222> LOCATION: (8)..(8)
265 <223> OTHER INFORMATION: n = a or c
267 <220> FEATURE:
268 <221> NAME/KEY: misc_feature
269 <222> LOCATION: (14)..(14)
270 <223> OTHER INFORMATION: n = a or c
272 <400> SEQUENCE: 9
W--> 273 anctccanac gtcnga 16
275 <210> SEQ ID NO: 10
276 <211> LENGTH: 17
277 <212> TYPE: DNA
278 <213> ORGANISM: artificial sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: primer
283 <220> FEATURE:
284 <221> NAME/KEY: misc_feature
285 <222> LOCATION: (3)..(3)
286 <223> OTHER INFORMATION: c or t
288 <220> FEATURE:
289 <221> NAME/KEY: misc_feature
290 <222> LOCATION: (4)..(4)
291 <223> OTHER INFORMATION: n = c or a
293 <220> FEATURE:
294 <221> NAME/KEY: misc_feature
295 <222> LOCATION: (6)..(6)
296 <223> OTHER INFORMATION: n = g or a
298 <220> FEATURE:
299 <221> NAME/KEY: misc_feature
300 <222> LOCATION: (10)..(10)
301 <223> OTHER INFORMATION: n = c or t
303 <220> FEATURE:
304 <221> NAME/KEY: misc_feature
305 <222> LOCATION: (15)..(15)
306 <223> OTHER INFORMATION: n = a or g
308 <400> SEQUENCE: 10
W--> 309 canngngacn tggcngc 17
311 <210> SEQ ID NO: 11
312 <211> LENGTH: 16
313 <212> TYPE: DNA

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/806,125F

DATE: 10/26/2004  
TIME: 16:13:44

Input Set : A:\pto.lm.txt

Output Set: N:\CRF4\10262004\I806125F.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 6,10 ✓  
Seq#:2; Xaa Pos. 6,10 ✓  
Seq#:3; Xaa Pos. 1,2,3,4,6,7,9,11 ✓  
Seq#:6; N Pos. 3,4,9,10 ✓  
Seq#:7; N Pos. 2,8,11,14 ✓  
Seq#:8; N Pos. 3,4,6,10,12,15 ✓  
Seq#:9; N Pos. 2,8,14 ✓  
Seq#:10; N Pos. 3,4,6,10,15 ✓  
Seq#:11; N Pos. 2,8,11,14 ✓

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:3; Line(s) 104

**VERIFICATION SUMMARY**

DATE: 10/26/2004

PATENT APPLICATION: US/09/806,125F

TIME: 16:13:44

Input Set : A:\pto.lm.txt

Output Set: N:\CRF4\10262004\I806125F.raw

L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0